April 25, 1944. J. VESELY 2,347,443

GUN MOUNTING

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FIG. 1.

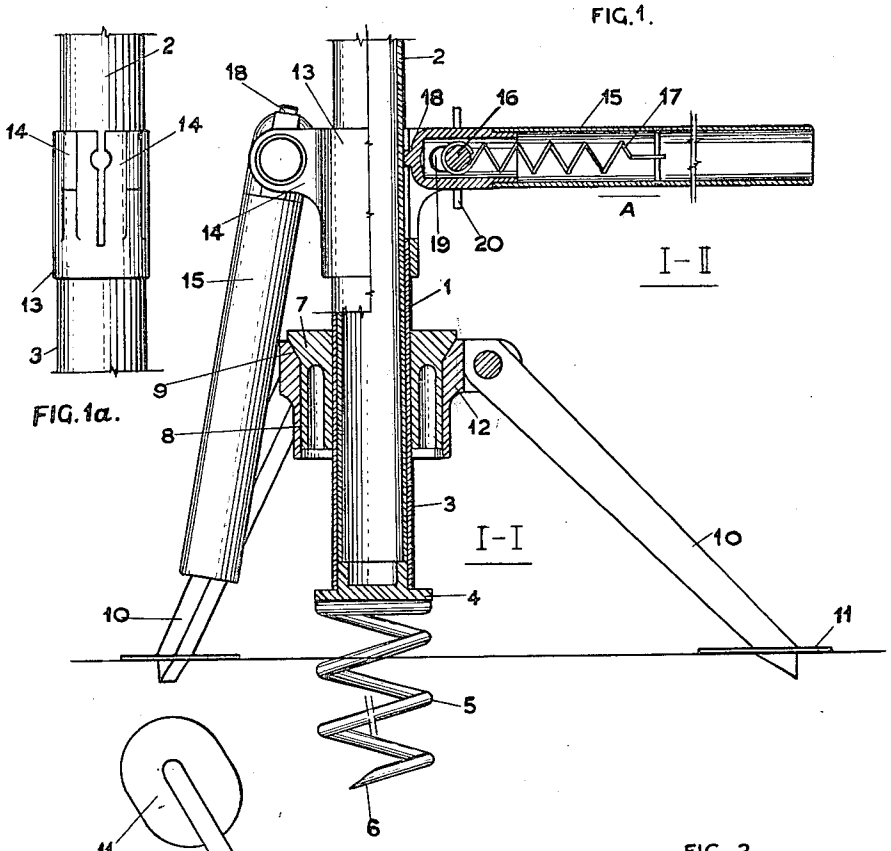


FIG. 1a.

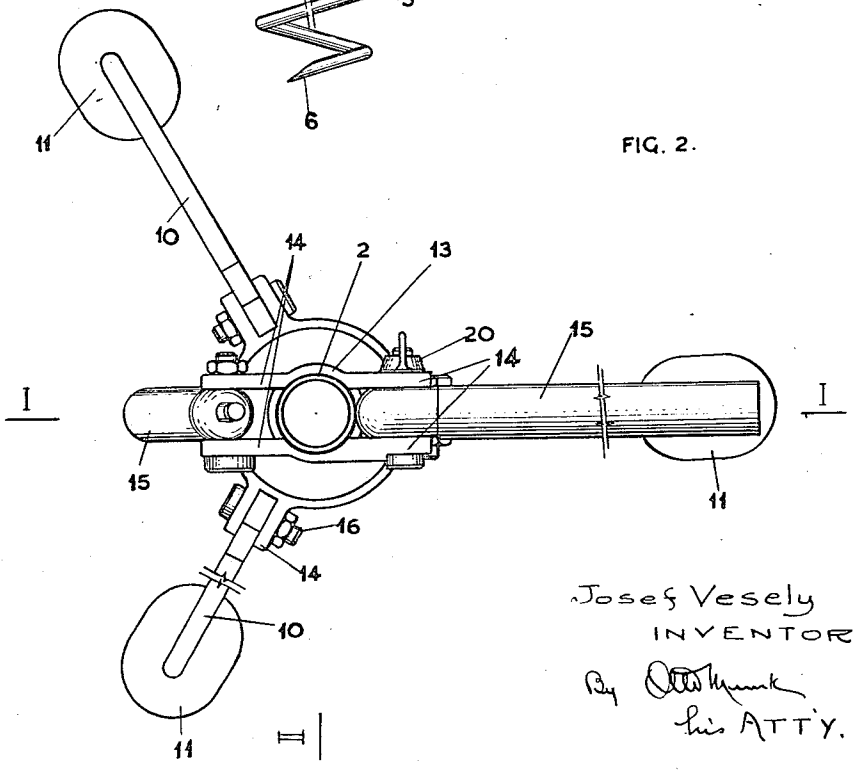


FIG. 2.

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FIG. 3.

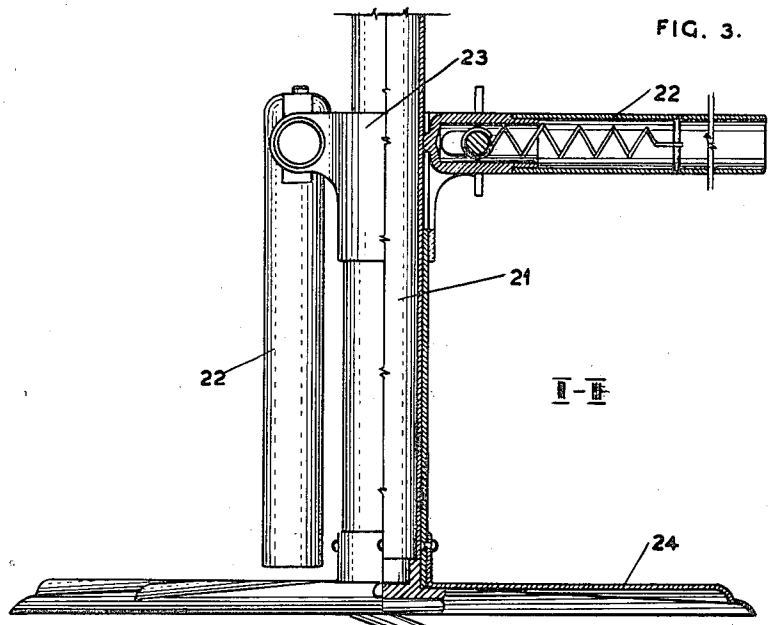
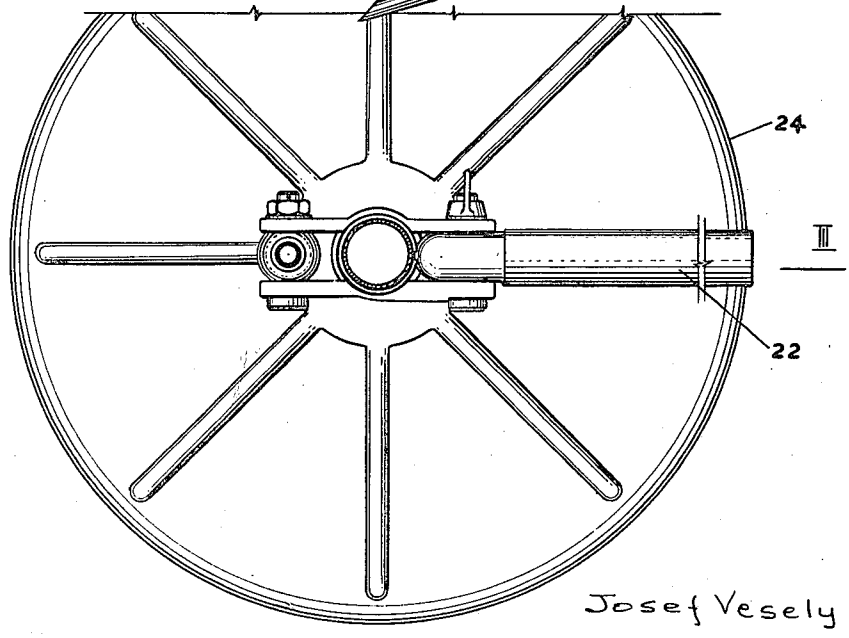


FIG. 4.



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UNITED STATES PATENT OFFICE

2,347,443

GUN MOUNTING

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Application March 4, 1942, Serial No. 433,321
In Great Britain January 29, 1941

2 Claims. (Cl. 248—156)

The present invention relates to improvements in gun mountings in general, and more particularly to mountings for guns of small calibre such as machine or automatic guns, light cannon and the like.

The chief object of a gun mounting is to provide a firm and reliable support for the gun when firing, without however unduly increasing the weight of the complete gun. These two conditions in combination are difficult to meet, since if the mounting is light in weight it does not afford the required stability, and attainment of increased stability by increasing the weight of the mounting is of course highly undesirable.

The gun mounting according to the present invention solves this problem in a simple and efficient manner.

The new gun mounting comprises a carrying member adapted to carry the post for supporting the gun, said carrying member being arranged for attachment to or insertion in a suitable tripod or like support adapted to rest on the ground. A helical spring is provided at the lower end of the carrying member, said spring being arranged to screw into the ground upon rotation of the carrying member and for this purpose suitable handles, or equivalent means, may be provided on the carrying member. Suitable abutting means are provided on the carrying member in position for co-operation with means on the tripod or like support, or the abutting means provided on the carrying member may be adapted to rest directly on the ground.

The accompanying drawings illustrate two embodiments of the invention.

Fig. 1 shows one embodiment of gun mounting according to the invention, in part sectional elevational view, partly along the line I—I of Fig. 2 and partly along I—II of Fig. 2.

Fig. 1*a* is an elevational view of a detail, seen from the right hand side of Fig. 1.

Fig. 2 shows the gun mounting in plan view.

Fig. 3 is a view similar to Fig. 1 of a modified embodiment of the invention along III—III of Fig. 4, and

Fig. 4 shows the plan view of the device represented in Fig. 3.

Referring first to Figs. 1 and 2, the reference numeral 1 denotes the carrying member in general, said carrying member serving to support the mounting post 2 of the gun. The carrying member 1 consists of a tubular or similarly shaped member 3 provided at its bottom portion with a plug 4. A helical spring 5 is secured to the underside of the plug 4 and has its free end 6 tapered, sharpened or otherwise shaped to facilitate the screwing of the spring into the ground.

A collar 7 is firmly secured on the tubular member 3, said collar having an external cylindrical surface 8 with a conical enlargement 9 at its upper end.

The support in the form of a tripod consists of three legs 10, 10, 10, carrying suitable feet 11 at their lower ends, which serve to ensure a firm grip of the legs on the ground. The upper ends of the legs are journalled in a ring 12 having inner cylindrical and conical surfaces corresponding to surfaces 9 and 10 of the collar 7.

The upper part of the tubular carrying member 3 carries a sleeve 13 which is provided with suitable bearings 14 for two handles 15. Each handle 15 is journalled in its bearing 14 by a bolt 16, and a spring 17 is anchored with its one end in or around the bolt 16 and with its other end in the body of the handle 15. A projection 18 is arranged at the inner end of the handle, said projection being adapted to enter a corresponding recess in the wall of the sleeve 13 (see right hand part of Fig. 1), and so to hold the handle in the horizontal position.

A suitable slot 19 is provided in the head of the handle 15, through which slot the bolt 16 passes, so that, upon pulling the handle in the outward direction the projection 18 can be disengaged from the recess in the sleeve 13 and the handle folded down alongside of the mounting.

In order that the sleeve 13 may also serve for holding firmly the mounting post to be accommodated in the carrying member, the tube 3 and the sleeve 13 are split in their upper parts and the bolt 16 is provided with a wing nut or the like 20, by the tightening of which the sleeve 13 is caused to close the tube 3 firmly on the post thus securing it in position. The split in the ring 13 is shown clearly in Fig. 1*a*.

In operation the new gun mounting is used in the following manner:

First the tripod is placed on ground and the carrying member 1 inserted therein, being passed through the ring 12, until the end 6 of the spring 5 abuts the ground. Then, by rotation of the handles 15 which have been brought into horizontal position, and by a certain pressure on the carrying member 1, the spring 5 is screwed into the ground until the conical surface on the collar 7 abuts against the conical surface 9 on the ring 12. By further rotation of the carrying member 1 tension is imparted to the spring 5 so that the carrying member 1 is urged firmly into and onto the tripod and all parts are firmly secured on the

und. The handles **15** may then be folded
vn to lie close alongside the carrying member
afford a free and unimpeded space around the
ı mounting. The gun post **2** may then be
erted into the carrying member **1** and fixed in
r desired position by tightening the nut **20**.
The mounting may be disassembled in the re-
se sequence of operations, whereupon the
s of the tripod and the handles **15** may be
led up to occupy the minimum of space.
n a modified embodiment of the mounting,
wn in Figs. 3 and 4, the carrying member
is in principle similar to that according to the
vious example and is also provided with
ıdles **22** and sleeve **23** as already described.
The tripod in this example is replaced by a
te **24** fixed at the lower end of the carrying
mber **21**. The spring **25** is secured on the
lerside of the plate **24**.
n erecting the mounting in this case the
rying member with the spring **25** is rotated
l the spring screwed into the ground until
plate **24** abuts firmly against the ground,
l thereafter further rotation tensions the
ing **25**.
The mounting according to the invention is
remely simple and light in weight and assures
irm and reliable support of the gun. The
nipulation, too, is simple and the mounting
ı be effected in a few seconds.

claim:

. A mounting for a gun comprising a carry-
member adapted to accommodate the mount-
post for the gun, a helical spring mounted on the underside of said carrying member and adapted to be screwed into the ground upon the carrying member being rotated, an external collar on said carrying member, a tripod for supporting said carrying member said tripod having a collar at the upper end thereof adapted to receive said external collar on said carrying member for abutting engagement therewith and an abutment plate for engagement with the ground near the lower end of each of its legs.

2. A mounting for a gun comprising a carrying member adapted to accommodate the mounting post for the gun, a helical spring mounted on the underside of said carrying member and adapted to be screwed into the ground upon the carrying member being rotated, abutting means in the form of a collar rigidly secured on the carrying member, and having a cylindrical surface and a conical enlargement at its upper end, a tripod, an abutment plate for engagement with the ground near the lower end of each leg of said tripod, a ring carried by the upper end of the tripod, said ring having a conical surface corresponding to the conical surface of said abutting means adapted to impart a preliminary to bear when the carrying member is passed through the ring carried by the tripod, said abutting means adapted to impart a preliminary stable support to said carrier which is supplemented by a subsequent supplemental rotation of said carrier to tension said helical spring and thereby to anchor firmly said mounting in the ground.

JOSEF VESELY.